

LASER PROJECTION DISPLAY AND ILLUMINATION DEVICE WITH MEMS
SCANNING MIRROR FOR INDOOR AND OUTDOOR APPLICATIONS

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ABSTRACT

A projection display system includes a light source emitting a light beam, and a reflecting mirror system for scanning the light beam over an image to illuminate the image. The light source can be solid state such as a laser diode. The reflecting mirror system can be one or more MEMS scanning mirrors that rotate to raster scan the light beam over the image. The image can be an advertisement located on a wall, a screen, a sign, or a billboard. The image can also be a semi-transparent image that is projected onto a medium to produce a larger image.